

ABSTRACT

A coil on tube heat exchanger is provided that uses multiple parallel helical coil tubes to limit liquid pressure losses while providing similar performance and production times to previous coil and tube designs. Two or more coil tubes are wrapped together around a tube in a helical fashion, permitting the heat exchanger to be used in a counter-flow, or contra-flow, implementation. The system preferably includes a header, or manifold, to connect two or more of the coil tubes together at the beginning and/or end of the tube. However, each individual coil may be connected to a separate load and kept independent. Embodiments of the present invention provide reduced pressure loss, higher performance and are generally faster to manufacture than prior heat exchangers.